SILVER BURDETT & GINN

SOCIAL STUDIES

GeoWhiz

A WORLD GEOGRAPHY PROGRAM



Silver Burdett & Ginn

COURSEWARE

Developed with Learning Quest, Inc.

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ISBN 0-382-08646-5

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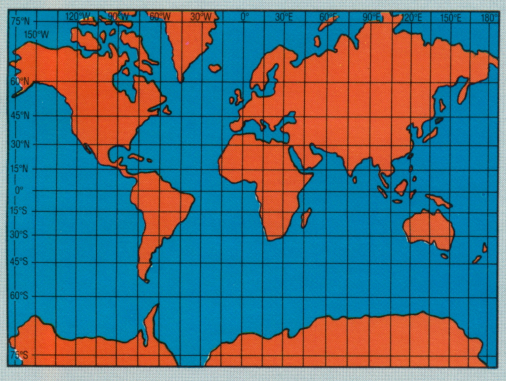
TO THE TEACHER

***GeoWhiz* makes world geography entertaining!**

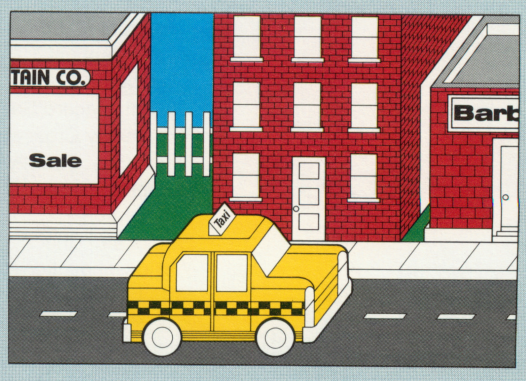
Students can reinforce the geography skills they learn in Silver Burdett & Ginn's *A World View* © 1988 in a enjoyable way by using the ***GeoWhiz*** program. Students become members of an international search and rescue team whose mission is to locate a missing aircraft that has made an emergency landing in a particular country or city of our world. Using critical thinking skills, students then analyze clues given by the pilot in order to pinpoint the specific city or country.

GeoWhiz is a database program containing on-screen maps and facts about countries and cities of the world. It has been developed to provide experience in using a database as a source of information. Each search of the database produces a revised list of countries or cities that are possible locations of the missing aircraft.

GeoWhiz comes complete with a separate AppleWorks® Data Disk containing the database of the program. Students can use this data disk with AppleWorks to update information or to add their own information. This Couseware Guide provides more detailed information about the ***GeoWhiz*** program. Please read it carefully, and enjoy working with ***GeoWhiz***.



GeoWhiz



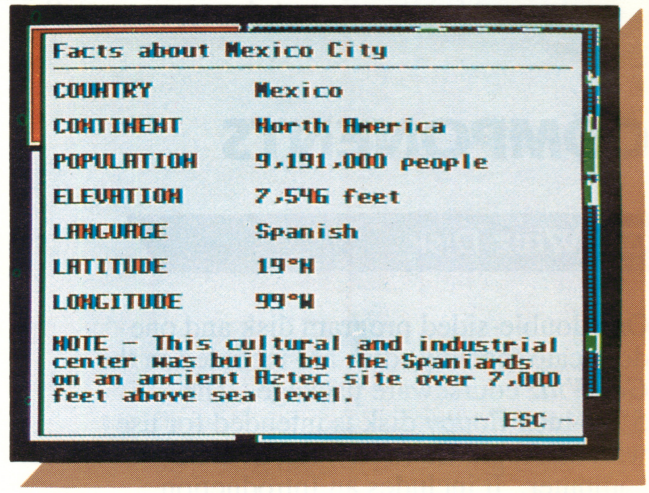
Grab-a-Cab

GeoWhiz is one of two map-skills courseware programs supporting Silver Burdett & Ginn Social Studies textbooks.

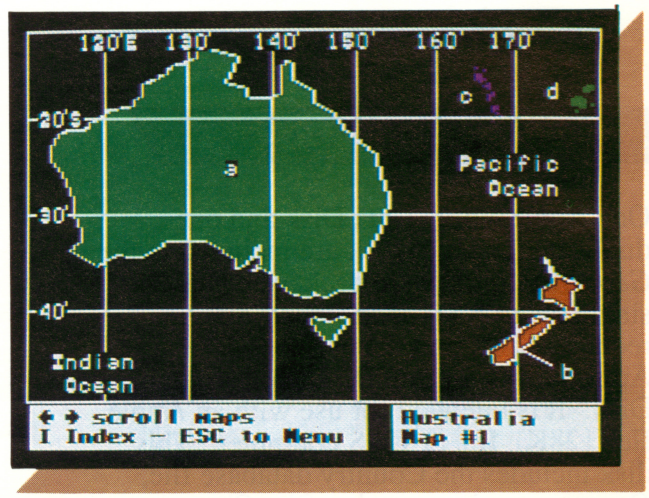
PROGRAM FEATURES

GeoWhiz is a geographic database program built into a powerful simulation. The program is designed to provide experience in using a database while challenging students to use critical thinking skills to solve a problem. *GeoWhiz* has the characteristics and special features listed below.

- Correlation with *A World View* © 1988
- Optional interactive instructions
- On-screen up-to-date information, including maps and facts about 170 countries and 170 cities
- Clear instructions that most students can follow independently
- Pacing that is controlled by the student
- Positive reinforcement and feedback in response to student performance
- Motivating graphics and attractive use of color
- A careful balance of graphics and text
- Use of uppercase and lowercase letters to ensure easy readability
- Controllable sound
- Fail-safe operation that disables other keyboard options when specific responses are required



City Summary Screen



On-screen Map

EQUIPMENT NEEDED

To use the ***GeoWhiz*** disk, you will need an Apple IIe (64K), IIc, or IIGS computer, a video monitor (color or monochrome), and one disk drive.

For the AppleWorks user, an optional AppleWorks compatible data disk is included as a source of additional activities.

To use the AppleWorks Data Disk, you will need an Apple IIe (128K), IIc or IIGS computer, a video monitor (color or monochrome), one or more disk drives, the AppleWorks Startup Disk and Program Disk. A printer is optional.

COMPONENTS

GeoWhiz Disk

One double-sided program disk and one duplicate (backup) disk are included in the ***GeoWhiz*** courseware package. The 5 1/4-inch floppy disk is intended for use with an Apple IIe (64K), IIc, or IIGS computer. It includes an Introduction, Practice, the GeoWhiz scenario, and a Database. The program produces colorful graphics when displayed on a color monitor, and also operates effectively on a monochrome monitor.

AppleWorks Data Disk

One AppleWorks Data Disk and one duplicate (backup) disk are included in the ***GeoWhiz*** courseware package. The single-sided 5 1/4-inch floppy disk requires 128K and the use of the AppleWorks Startup Disk and Program Disk. It is intended for use with an Apple IIe (128K), IIc, or IIGS computer. This disk includes the Country database file, Country word processing file, City database file, and City word processing file.

Courseware Guide

Before introducing ***GeoWhiz*** into the classroom, this Courseware Guide should be studied thoroughly. The guide provides information about how the program works, how to integrate it into your social studies curriculum, and how to extend the concepts presented into other enjoyable activities.

Copy masters are also included in the Courseware Guide. The copy masters, which include activity sheets designed to complement the courseware, may be reproduced directly or used to make spirit masters for duplication.

CORRELATION WITH *A WORLD VIEW*

The chart below lists the skills reinforced by ***GeoWhiz*** and the chapters in *A World View* ©1988 in which those skills are introduced or reviewed.

A World View Correlation	
Map and Globe Skills	**Student Text Pages**
Continents and Oceans	6, 8, 442
Shape Identification	6, 98, 100
Cardinal Directions	14
Symbols	14, 83, 316
Color	23, 24
Political Boundaries	118, 198, 212
Location	15, 43, 76
Inset Maps	227, 502, 503
Latitude	16, 17, 19
Longitude	16-19
Using a Coordinate System (grid)	95, 267, 337
Reasoning Skills	**Student Text Pages**
Comparing and Contrasting	33, 428-429
Evaluating Relevance of Information	282

TEACHING STRATEGIES

How you incorporate ***GeoWhiz*** into your social studies curriculum depends on your unique teaching style and the goals you have established for your students. You may wish to use some of the following suggestions:

- Discuss these vocabulary words: **continent**, **country**, and **city**. Have students compare and contrast each term. Make sure they can note several similarities and differences. Form a class list of places that students, families, or friends have visited. Include the proper city, country, and continent for each visit. Locate each visitation on a map. Use the maps to determine who has traveled farthest.

- Familiarize students with the outline maps on pages 28-34. Encourage shape identification of the continents. Discuss bordering oceans and other landmarks to identify each continent.

- Hold a contest to see which student in the class can name the most countries on a given continent. A second contest may then be conducted to identify by name and location as many countries as possible on a blank continent map. Repeat these contests frequently throughout the year to further encourage map and globe skills.

- Give each student a copy of the **Clue Notes** and **Student Record Sheet** copy masters on pages 35 and 36 of this guide. Encourage students to use these copy masters with ***GeoWhiz*** to help them locate the missing aircraft.

- Divide the class into six small groups. Assign a different continent to each group. Using the proper continent map from pages 28-34, have each group approximate the longitude and latitude of each city on the map. Then have the students compare their findings with those on the AppleWorks Data Disk. You may wish to display these maps near the computer for quick and easy reference.

- Display the following maps in this order: world map, map of North America, map of the United States, your state map, and your town or city map. Have students describe this series of maps. Compare and contrast the maps by discussing similarities and differences. Locate your school on the town or city map. Then locate your town or city on the state map. Locate both your city and state on the United States map. Continue until your city, state, country, and continent are all located on the world map. Discuss the vocabulary terms **inset map**, **cardinal directions**, and **coordinate system**. Have students orally explain how these terms were helpful in locating positions on the world map.

PROGRAM OBJECTIVES

The *GeoWhiz* program is designed to reinforce the map and globe skills that are presented in *A World View* ©1988. It also enchances critical thinking skills. Upon completion of *GeoWhiz*, students should be able to do the following:

- **Identify continents, countries, and oceans on a map by their respective shapes.**
- **Determine the relative location of a country or city by latitude and longitude.**
- **Given a country or city, find its respective latitude and longitude by using a map or an inset map.**
- **Compare and contrast data to help determine the location of a specific country or city.**
- **Given clues about a particular country or city, use the computer database as a source of information for determining the location, population, area, borders, language, and elevation of that country or city.**
- **Use the computer database as a source of information about 170 cities and 170 countries.**
- **Evaluate the importance of information given by the pilot in finding the location of the missing aircraft.**

TIME ALLOTMENTS

The amount of time required to use the *GeoWhiz* program varies according to the part of the program being used and the map and globe skills of the student using it. Since the program is designed to be used independently by your students, each student may set his or her own pace. Thus, the amount of time needed for each part of the program will vary from one student to another.

Below are approximate time ranges for completing each part of the *GeoWhiz* program.

Introduction	3-5 minutes
Practice	10-15 minutes
GeoWhiz	8-12 minutes
Database	5-15 minutes

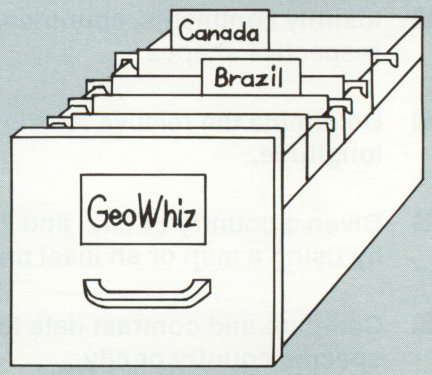
BACKGROUND INFORMATION

GeoWhiz is an extension of the map and globe skills found in *A World View* © 1988. It is intended for Grades 6-8. *GeoWhiz* can also be adapted to other social studies curricula. The following information may be useful.

Database Programs

What is a database?

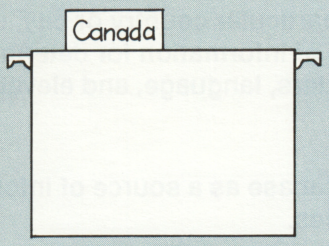
GeoWhiz is a database program. A database contains a collection of information organized for rapid search and retrieval. It is the rough electronic equivalent of a file cabinet.



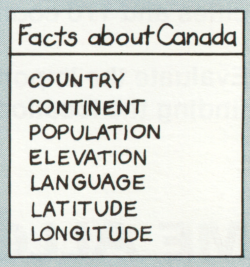
What terms are used in a database?

A database organizes information into three logical entities: file, record, and field.

A file is a collection of logically related data. An example of a file from *GeoWhiz* is Country data.



Each file contains a collection of related records. Each record is an organized collection of information about one subject. In *GeoWhiz* the information about one country is found on one record.

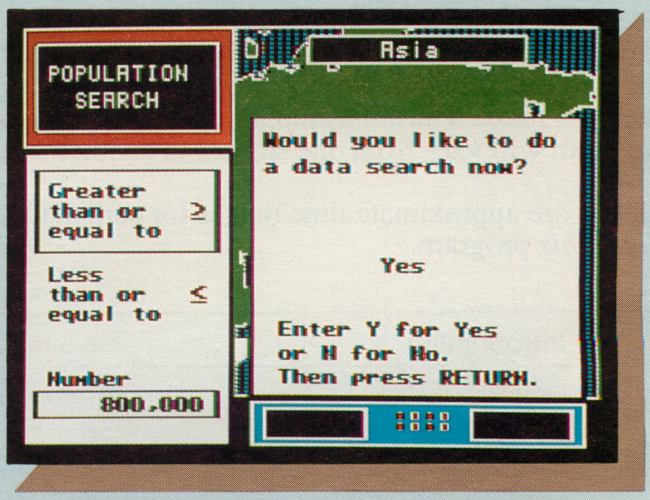


Each record contains a collection of related fields. A field is a separate category of information on a record. An example from *GeoWhiz* is the population of a country.

What is a search?

To retrieve specific information from a file, a search is done. A search scans an entire file to identify all records with the same information in a given field.

One or more variables may be searched for in a file. Searching for one variable allows the program to examine one field in each record of the file. For example, in *GeoWhiz* a search may be conducted to find all the countries in Asia with a population greater than or equal to 800,000 people. In this example, the variable is greater than or equal to 800,000, the field is population, the record is Asia, and the file is Country data.



Searching the Database

A search for a combination of variables examines more than one field in each record. In the *Database* section of ***GeoWhiz***, a search can be conducted to find all the countries of Asia with a location of 30° north latitude and with a population greater than or equal to 800,000.

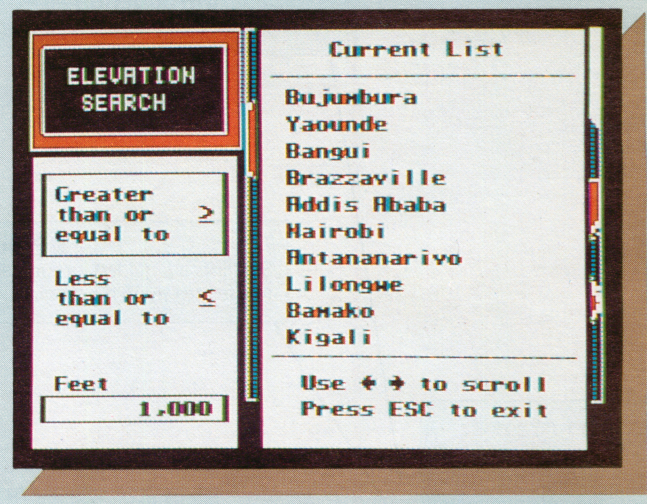
GeoWhiz Program

The database in ***GeoWhiz*** is accessible from both the *GeoWhiz* and *Database* programs.

The Country database contains 170 countries. The Soviet Union is listed twice, because it is considered part of both Europe and Asia. In the Country file there are five fields: Reference, Location, Population, Area, and Border. The Location field contains latitude and longitude coordinates stored for the computer's reference. This field can be searched but does not appear on the summary screen (see below). The Population field gives the number of people, rounded to the nearest hundred thousand, in each country. The number of square miles for each country can be found in the Area field. The area is also given in square kilometers on the AppleWorks Data Disk. The Border field lists the countries, oceans, lakes, and seas that border the chosen nation.

The City database contains 170 cities. There are five fields: Location, Population, Elevation, Language, and Facts. The Location and Population fields are similar to those in the Country database. The Elevation of each city is given in feet above sea level. The Language field has over 65 languages. The last field, Facts, lists an outstanding fact about each city.

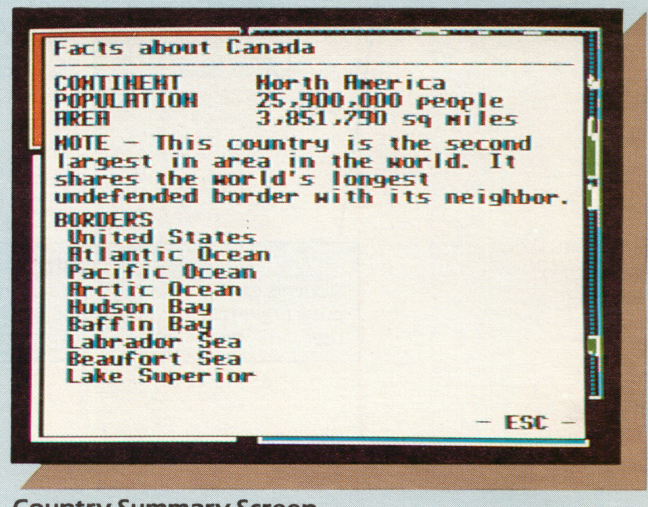
The Reference field, for both country and city, leads to a submenu containing Facts, Maps, a Review, and a List option.



Elevation Search Results

Summary Screen

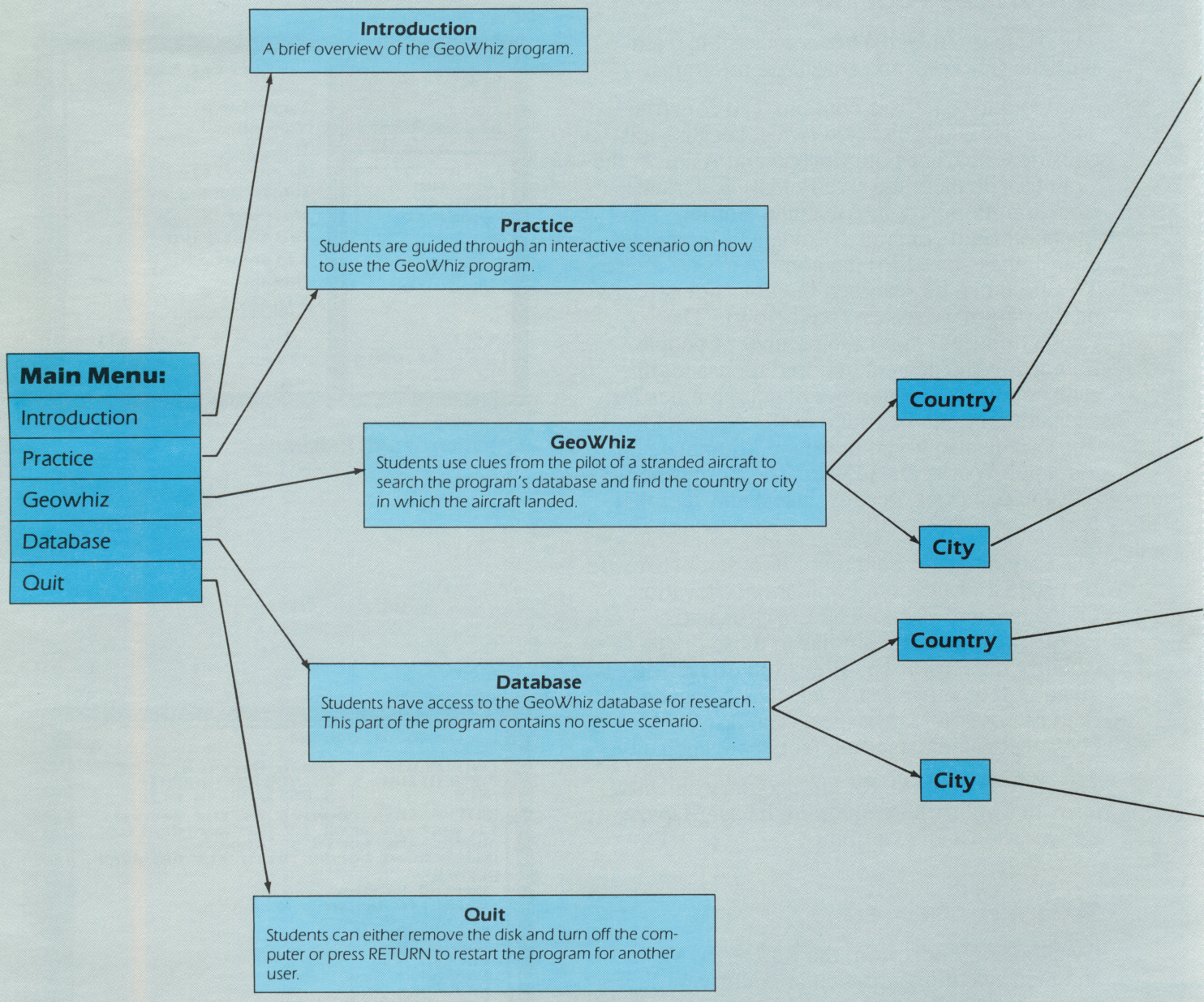
By choosing *Facts* from the Reference Menu and then selecting a particular country or city, a summary screen is shown. This screen lists all the information in the database about that particular country or city. One full record is viewed at a time. An example is "Facts about Canada."

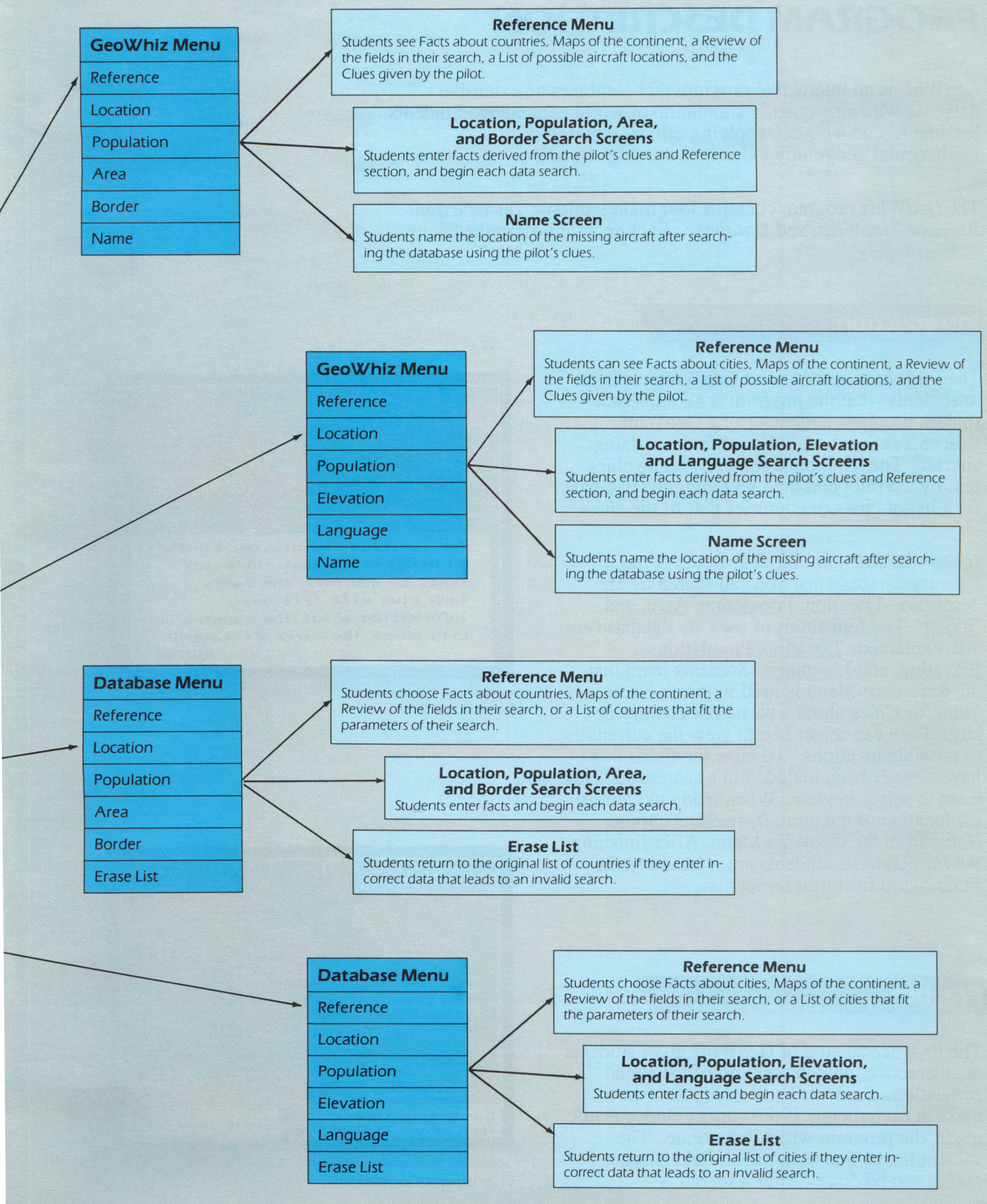


Country Summary Screen

PROGRAM STRUCTURE

This diagram shows the general structure of the GeoWhiz program.




GeoWhiz Menu
Reference
Location
Population
Area
Border
Name
Reference Menu
Students see Facts about countries, Maps of the continent, a Review of the fields in their search, a List of possible aircraft locations, and the Clues given by the pilot.
Location, Population, Area, and Border Search Screens
Students enter facts derived from the pilot's clues and Reference section, and begin each data search.
Name Screen
Students name the location of the missing aircraft after searching the database using the pilot's clues.
GeoWhiz Menu
Reference
Location
Population
Elevation
Language
Name
Reference Menu
Students can see Facts about cities, Maps of the continent, a Review of the fields in their search, a List of possible aircraft locations, and the Clues given by the pilot.
Location, Population, Elevation and Language Search Screens
Students enter facts derived from the pilot's clues and Reference section, and begin each data search.
Name Screen
Students name the location of the missing aircraft after searching the database using the pilot's clues.
Database Menu
Reference
Location
Population
Area
Border
Erase List
Reference Menu
Students choose Facts about countries, Maps of the continent, a Review of the fields in their search, or a List of countries that fit the parameters of their search.
Location, Population, Area, and Border Search Screens
Students enter facts and begin each data search.
Erase List
Students return to the original list of countries if they enter incorrect data that leads to an invalid search.
Database Menu
Reference
Location
Population
Elevation
Language
Erase List
Reference Menu
Students choose Facts about cities, Maps of the continent, a Review of the fields in their search, or a List of cities that fit the parameters of their search.
Location, Population, Elevation, and Language Search Screens
Students enter facts and begin each data search.
Erase List
Students return to the original list of cities if they enter incorrect data that leads to an invalid search.

PROGRAM DESCRIPTION

GeoWhiz is an interactive program that combines an extensive database with an engaging simulation of world geography. Students become rescue workers, applying critical thinking skills and fundamental geography to locate a missing aircraft.

The ***GeoWhiz*** program contains four main sections: *Introduction*, *Practice*, *GeoWhiz*, and *Database*. Each section is described below.

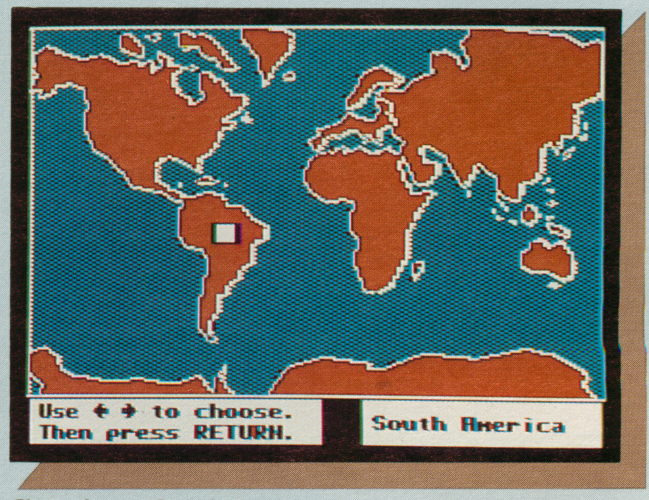
Introduction

The *Introduction* section of ***GeoWhiz*** explains to students what the program is about. Each student becomes a member of a GeoWhiz Rescue Team, whose job is to find a missing aircraft. The location is found by using clues sent by the pilot and then searching the database for a list of cities or countries that fit the clues.



Introduction

In the *Introduction*, the four fields of the Country database that you can search by are described: Location, Population, Area, and Border. The four fields of the City database are also explained: Location, Population, Elevation, and Language. Students learn that the Reference Menu is used to locate *Facts*, *Maps*, or *Clues* about a particular country or city. They can select *List* to view the current list of possible locations. To view the fields that have already been included in a search, students learn to select *Review*. When ready to identify the location of the aircraft, students choose *Name* from the *GeoWhiz* Menu. After finishing the *Introduction*, students are returned to the Main Menu for further selection.



Choosing a Continent

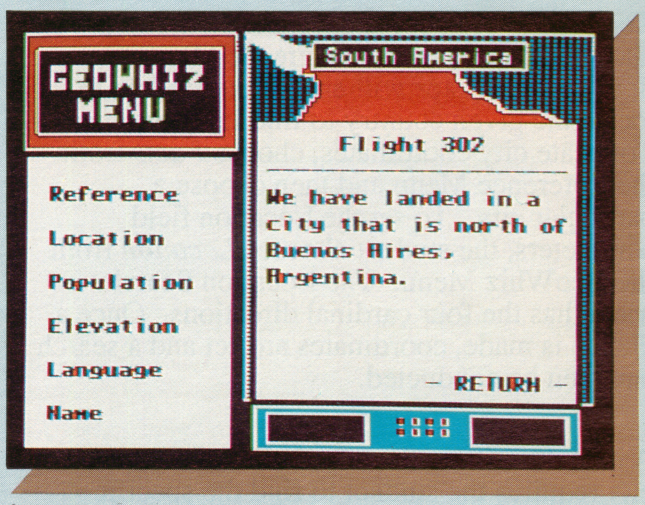
Practice

The *Practice* section of ***GeoWhiz*** gives students an interactive, guided scenario of the actual simulation. Students learn what selection to make at each menu. If the correct choice is not made, the program will not continue. The student learns that each time a field is set, a search can be done. After a search is

completed, a revised list of current locations is shown and a new clue is sent by the pilot. When only one location remains, the student can choose *Name* in order to identify the location of the aircraft. This is followed by a graphic reward.

After the reward, the student learns of three more options on the Reference Menu: *List*, *Review*, and *Clues*. In addition, students learn that pressing ESC will take them back to the previous menu or screen.

At the end of the *Practice* section, students can repeat that section or go back to the Main Menu.



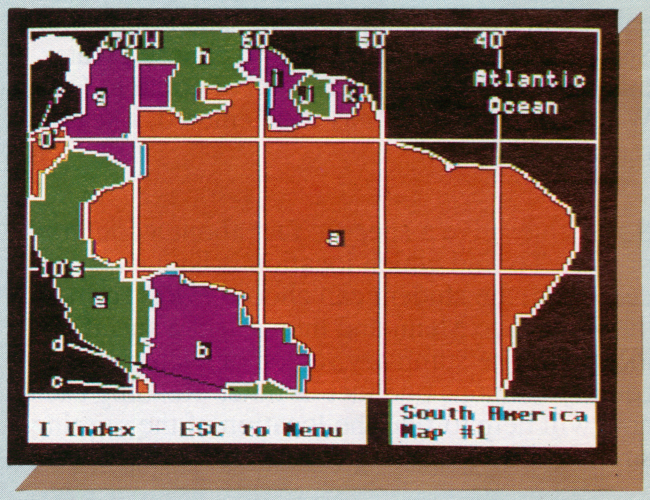
The Pilot's First Clue

GeoWhiz

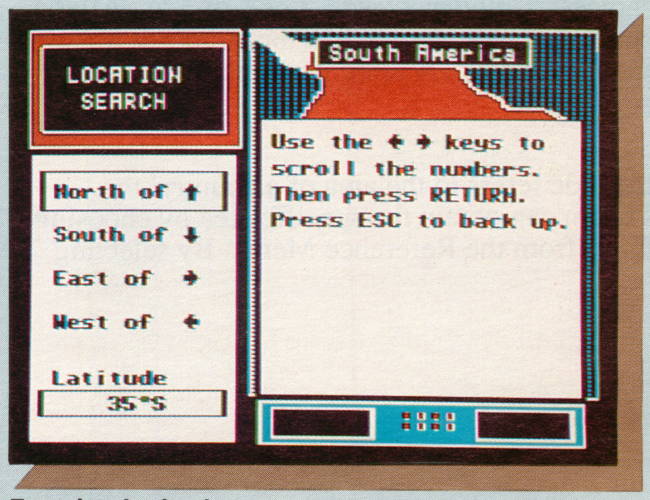
The *GeoWhiz* section is the unguided adventure in which the student becomes a member of the rescue team to locate the missing aircraft. After choosing a continent and either a city or a country, a brief explanation of the rescue mission is given. This is followed by action graphics of an emergency aircraft landing. The pilot sends up to five clues. After each clue, the student must decide how to best use the information in order to set a field for the database search. Some clues require more specific information; in this case, the Reference Menu affords several options. Once a field is set, the student may conduct a search. The search produces a list of possible locations as well as another clue. After one search has been done, the student may attempt to identify the location. Since each search is cumulative, the list shortens as cities or countries are eliminated.

Critical thinking skills are necessary for the proper use of each clue. Clues given to locate countries contain information about Location, Population, Area, Border, or Facts. Clues given to locate cities contain information about Location, Population, Elevation, Language, or Facts.

A clue may describe a relative direction from another country. However, longitude or latitude coordinates are needed to set the Location field.



Finding Latitude



Entering Latitude

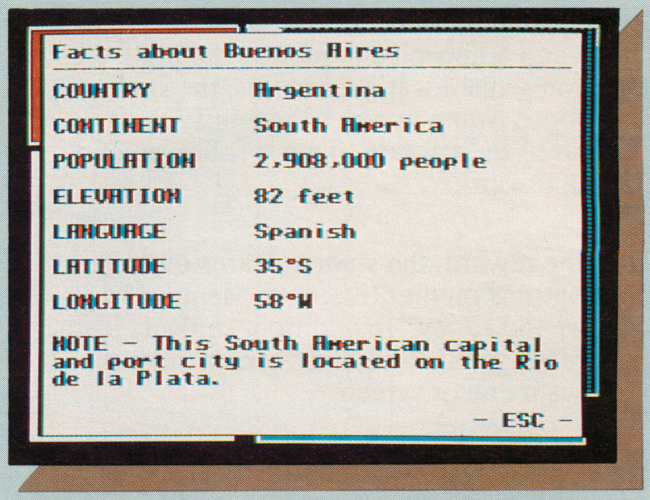
To obtain these coordinates, the student may choose *Maps* from the Reference Menu. Scrolling the maps will enable the student to locate the given country to find its coordinates. To locate city coordinates, choose *Facts* from the Reference Menu and then choose a particular city. To set the Location field parameters, the student chooses *Location* from the GeoWhiz Menu. The Location Search Menu has the four cardinal directions. Once a choice is made, coordinates are set and a search can then be conducted.

A clue describing the population of a country or city requires the student to find the specific number of people. To do this, choose the *Facts* section of the Reference Menu; then select the given location. The resultant summary screen shows the population. This number can then be entered in the Population field. The Population Search menu asks the student to choose greater than or equal to (≥) or less than or equal to (≤). When the population has been entered, a search may be conducted.

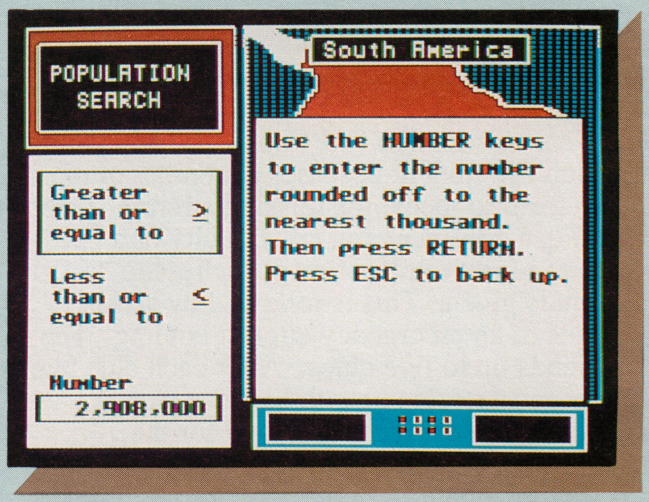
Some clues give a specific fact about a country or city. To find which location is being described, the student can choose *Facts* from the Reference Menu and then select a specific location. The summary screen of each city or country contains one fact or note. Reading each note will help to find the location of the missing aircraft. The Fact field cannot be searched.

When a clue specifies a border of a country, the student may choose *Border* from the GeoWhiz Menu. The Border Search menu has four choices: *Country*, *Ocean*, *Lake*, or *Sea*. After a choice is made, the student then chooses a specific border. A search can then be conducted.

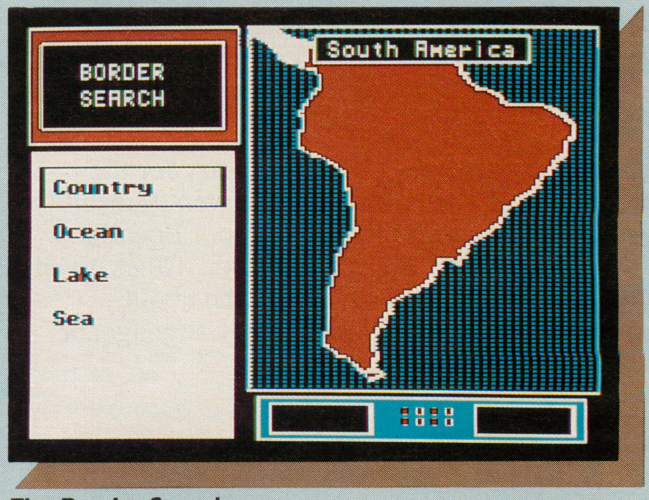
If a clue refers to the area of a country, the student can obtain the specific area by choosing *Facts* from the Reference Menu. By selecting



Finding City Facts



Entering the Population



The Border Search

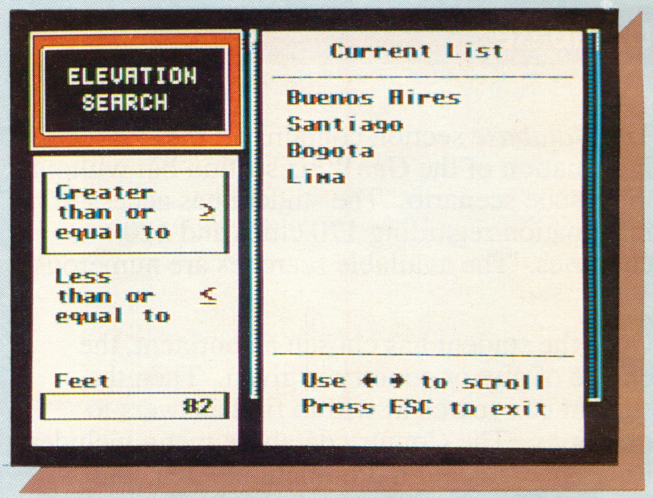
the city or country given in the clue, the student views a summary screen from which the area can be found. To set the Area field, the Area Search menu gives two choices: greater than or equal to (≥) or less than or equal to (≤). A search can then follow.

If a clue refers to the elevation of a city, the student can find the specific elevation from the *Facts* option of the Reference Menu. Choosing the proper city allows the student to locate the elevation. To input this number, the student uses the Elevation Search menu. Two options are given: greater than or equal to (≥) or less than or equal to (≤). Once the elevation is entered, a search can be done.

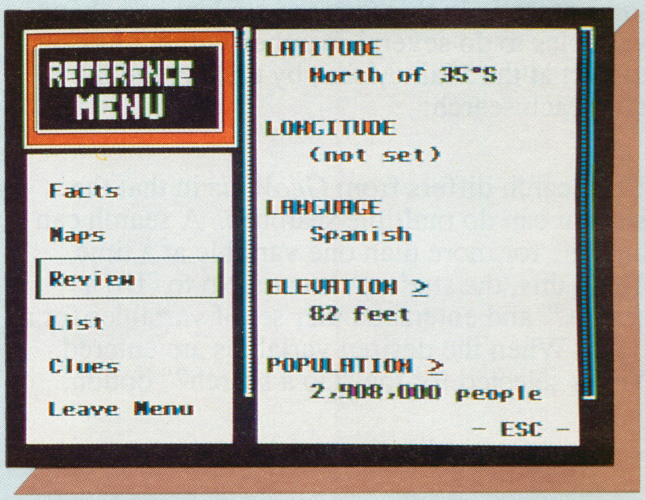
Some clues refer to the language of a city. To obtain more information, the student can find the specific language of a given city from the *Facts* option of the Reference Menu. Then the appropriate parameter can be set using the Language Search menu. The student chooses the correct language by scrolling the choices with the arrow keys. A search can then follow.

The program also provides several help screens. From the Reference Menu, the student can select, *Review*, *List*, or *Clues*. By choosing *Review*, the student is shown what parameters have been used to set the country or city fields. The *List* option provides the current list of possible locations for the aircraft. Choosing *Clues* allows the student to read all the clues that the pilot has sent.

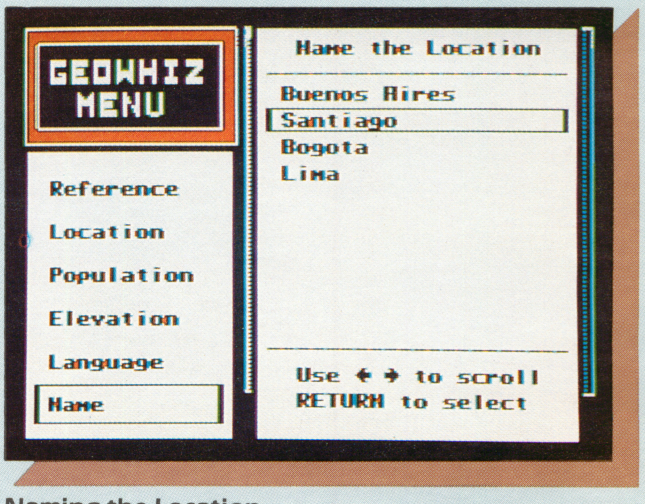
To identify the location of the missing aircraft, the student must choose *Name* from the GeoWhiz Menu. If the correct location is chosen, the aircraft is rescued. The student can then repeat the simulation or use another part of the program. If the wrong location is chosen, the student has the option of not continuing the search. Then the correct location is given, and the student may search for a different aircraft.



Possible Locations by Elevation



Reviewing Parameters



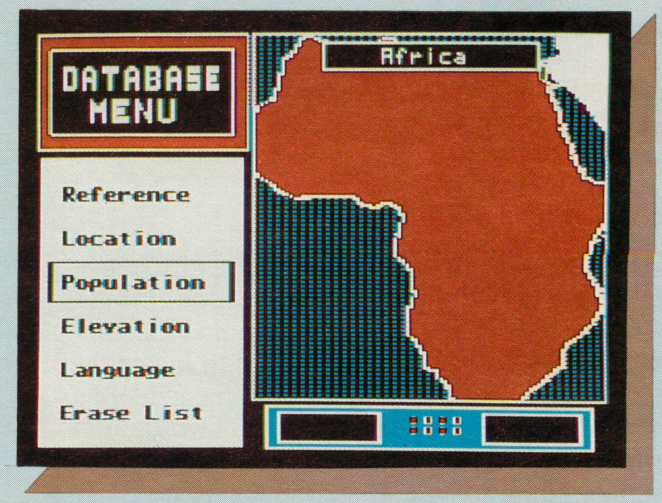
Naming the Location

Database

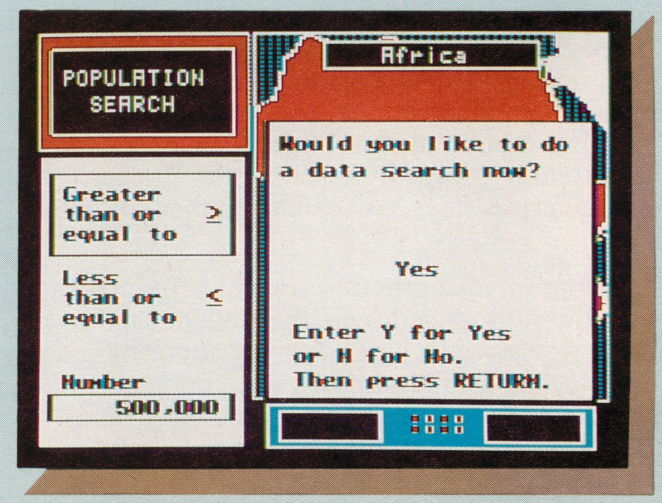
The *Database* section contains all the information of the ***GeoWhiz*** section but without the rescue scenario. The student has access to information regarding 170 cities and 170 countries. The available searches are numerous.

Once the student has chosen a continent, the choice of city or country is given. Then the student can search at will to find answers to questions. The Country database menu includes Reference, Location, Population, Area, and Border. The city menu includes Reference, Location, Population, Elevation, and Language The last choice on both menus is Erase List. It is available for use when the location list needs to be erased. In this way the student can change variables to do several searches without having to start at the Main Menu, by erasing the list after each search.

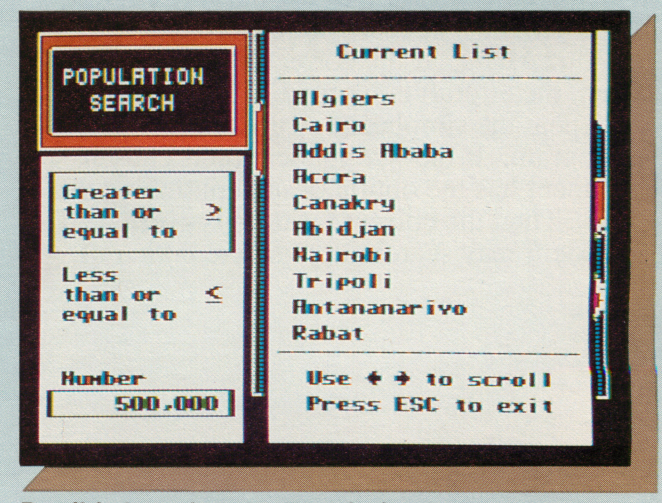
This search differs from *GeoWhiz* in that the student can do multiple searches. A search can be done for more than one variable at a time. To do this, the student chooses No to "Do a search?" and enters another set of variables for a field. When the desired variables are entered, Yes is selected for the "Do a search?" option.



Selecting the Population Field



Searching the Database



Possible Locations by Population

EXTENDING ACTIVITIES

The following activities may be used to extend student understanding of the concepts and skills found in *GeoWhiz*.

- Divide the class into small groups. Have each group paste a world map onto a piece of cardboard and cut out each continent. Put each continent into a separate paper bag. Without looking, have each student guess the identity of the continent by feeling the model inside the bag. If all members agree, the group labels that bag with the name of the continent. Continue until all bags are labeled. As a class, have students compare ways that they identified each continent. Which continent seemed easiest to identify? Which continent seemed most difficult? Why?

- Have students research five cities that are not included in the database. (Their own hometown may be one of the choices.) For each city, have students find its location in latitude and longitude, the current population, elevation, and language. Discuss how to enter this new data on the AppleWorks Data Disk. Then have the students locate their cities on a continent map.

- Display a large world map. Have one or two students secretly choose a particular country to visit. The other students in the class take turns asking questions about the country. The goal is to ask the least number of questions before correctly identifying the chosen country. To encourage critical thinking skills, help students ask questions that eliminate more than one country at a time. Examples might include the following: Is the country north or the equator? Does the country have port cities? Map and globe skills play an important role in this game.

- Have students create a new continent and describe how it was formed. They can name it, draw its shape on a world map, and show its countries. For each country, have the students write its description to add to the database. This can include proper location, population, area, and bordering countries, oceans, lakes, or seas.

COUNTRY/CITY LIST

AFRICA			
Country	*City*	*Country*	*City*
ALGERIA	Algiers	MADAGASCAR	Antananarivo
ANGOLA	Luanda	MALAWI	Lilongwe
BENIN	Porto-Novo	MALI	Bamako
BOTSWANA	Gaborone	MAURITANIA	Nouakchott
BURKINA FASO	Ouagadougou	MAURITIUS	Port Louis
BURUNDI	Bujumbura	MOROCCO	Rabat
CAMEROON	Yaounde	MOZAMBIQUE	Maputo
CAPE VERDE ISLANDS	Praia	NAMIBIA	Windhoek
CENTRAL AFRICAN REPUBLIC	Bangui	NIGER	Niamey
CHAD	N'Djamena	NIGERIA	Lagos
COMOROS	Moroni	RWANDA	Kigali
CONGO	Brazzaville	SAO TOME E PRINCIPE	Sao Tome
DJIBOUTI	Djibouti	SENEGAL	Dakar
EGYPT	Cairo	SEYCHELLES	Victoria
EQUATORIAL GUINEA	Malabo	SIERRA LEONE	Freetown
ETHIOPIA	Addis Ababa	SOMALIA	Mogadishu
GABON	Libreville	SOUTH AFRICA	Pretoria
GAMBIA	Banjul	SUDAN	Khartoum
GHANA	Accra	SWAZILAND	Mbabane
GUINEA	Conakry	TANZANIA	Dar es Salaam
GUINEA-BISSAU	Bissau	TOGO	Lome
IVORY COAST	Abidjan	TUNISIA	Tunis
KENYA	Nairobi	UGANDA	Kampala
LESOTHO	Maseru	ZAIRE	Kinshasa
LIBERIA	Monrovia	ZAMBIA	Lusaka
LIBYA	Tripoli	ZIMBABWE	Harare

ASIA			
Country	*City*	*Country*	*City*
AFGHANISTAN	Kabul	MONGOLIA	Ulan Bator
BAHRAIN	Manama	NEPAL	Katmandu
BANGLADESH	Dacca	NORTH KOREA	Pyongyang
BHUTAN	Thimbu	OMAN	Musqat
BRUNEI	Bandar Seri	PAKISTAN	Islamabad
BURMA	Rangoon	PHILIPPINES	Manila
CHINA	Beijing	QATAR	Doha
INDIA	New Dehli	SAUDI ARABIA	Riyadh
INDONESIA	Jakarta	SINGAPORE	Singapore
IRAN	Tehran	SOUTH KOREA	Seoul
IRAQ	Baghdad	SOVIET UNION	Moscow*
ISRAEL	Jerusalem	SRI LANKA	Colombo
JAPAN	Tokyo	SYRIA	Damascus
JORDAN	Amman	TAIWAN	Taipei
KAMPUCHEA (CAMBODIA)	Phnom Penh	THAILAND	Bangkok
KUWAIT	Al-Kuwait	TURKEY	Ankara
LAOS	Vientiane	UNITED ARAB EMIRATES	Abu Dhabi
LEBANON	Beirut	VIETNAM	Hanoi
MALAYSIA	Kuala Lumpur	YEMEN (ADEN)	Aden
MALDIVES	Male	YEMEN (SAN'A)	San'a

* Although Moscow is in Europe, the Soviet Union is in Europe and Asia.

AUSTRALIA

Country	*City*	*Country*	*City*
AUSTRALIA	Canberra	NEW ZEALAND	Wellington
FIJI	Suva	PAPUA NEW GUINEA	Port Moresby
KIRIBATI	Bairiki	SOLOMON ISLANDS	Honiara
MARSHALL ISLANDS	Majuro	TUVALU	Funafuti
NAURU	Yaren	VANUATU	Port Vila

EUROPE

Country	*City*	*Country*	*City*
ALBANIA	Tirana	LUXEMBOURG	Luxembourg
ANDORRA	Andorra la Vella	MALTA	Valleta
AUSTRIA	Vienna	MONACO	Monaco
BELGIUM	Brussels	NETHERLANDS	Amsterdam
BULGARIA	Sofia	NORWAY	Oslo
CYPRUS	Nicosia	POLAND	Warsaw
CZECHOSLOVAKIA	Prague	PORTUGAL	Lisbon
DENMARK	Copenhagen	ROMANIA	Bucharest
EAST GERMANY	East Berlin	SAN MARINO	San Marino
FINLAND	Helsinki	SOVIET UNION	Moscow
FRANCE	Paris	SPAIN	Madrid
GREECE	Athens	SWEDEN	Stockholm
HUNGARY	Budapest	SWITZERLAND	Bern
ICELAND	Reykjavik	UNITED KINGDOM	London
IRELAND	Dublin	VATICAN CITY	Vatican City
ITALY	Rome	WEST GERMANY	Bonn
LIECHTENSTEIN	Vaduz	YUGOSLAVIA	Belgrade

NORTH AMERICA

Country	*City*	*Country*	*City*
ANTIGUA AND BARBUDA	St. John's	HAITI	Port-au-Prince
BAHAMAS	Nassau	HONDURAS	Tegucigalpa
BARBADOS	Bridgetown	JAMAICA	Kingston
BELIZE	Belmopan	MEXICO	Mexico City
CANADA	Ottawa	NICARAGUA	Managua
COSTA RICA	San Jose	PANAMA	Panama City
CUBA	Havana	ST. CHRISTOPHER-NEVIS	Basseterre
DOMINICA	Roseau	ST. LUCIA	Castries
DOMINICAN REPUBLIC	Santo Domingo	ST. VINCENT AND THE GRENADINES	Kingstown
EL SALVADOR	San Salvador	TRINIDAD AND TOBAGO	Port-of-Spain
GRENADA	St. George's	UNITED STATES	Washington, D.C.
GUATEMALA	Guatemala City		

SOUTH AMERICA

Country	*City*	*Country*	*City*
ARGENTINA	Buenos Aires	GUYANA	Georgetown
BOLIVIA	La Paz	PARAGUAY	Asuncion
BRAZIL	Brasilia	PERU	Lima
CHILE	Santiago	SURINAME	Paramaribo
COLOMBIA	Bogota	URUGUAY	Montevideo
ECUADOR	Quito	VENEZUELA	Caracas

APPLEWORKS DATA DISK

GeoWhiz comes complete with an extensive data disk for use with AppleWorks. No prior experience or knowledge of AppleWorks is required. This is an optional feature of the program.

Accessing Files

To access the AppleWorks Data Disk, follow the instructions below.

1. Turn on the monitor, insert the AppleWorks Startup Disk, and turn on the computer.

2. When the program has loaded into the computer, the title screen will appear. An instruction is given at the bottom. Remove the Startup Disk and replace it with the AppleWorks Program Disk.

3. After RETURN is pressed, the program will ask for the date. Type in the date, using the correct format, and press RETURN.

4. When the Main Menu appears, press RETURN to select the option "Add Files to the Desktop."

5. If you are using one disk drive, remove the AppleWorks Program Disk and insert the AppleWorks Data Disk. Press RETURN. If you are using two disk drives, insert the AppleWorks Data Disk in drive 2, type 2 ("A different disk"), then press RETURN. At the next screen, type 2 ("Disk 2") and press RETURN. Then press RETURN again to choose "The current disk: Disk 2."

6. The screen now shows four different files, entitled City.Facts.WP, Cntry.Facts.WP, City.DB, and Country.DB. These are the City and Country word processor and database files. Press the up and down arrow keys to select a file. Then press RETURN.

7. The file now appears on the screen.

8. To change to another file, press ESC. Type 4 ("Remove Files from the Desktop") and press RETURN. Then press the right arrow key and then RETURN. The Main Menu appears again. Go to step 4 above.

Description of the Data Files

The City.Facts.WP (word processor) file lists the 170 cities. Each entry lists the continent, country, city, and fact. To view more of the file, use the arrow keys.

The Country.Facts.WP (word processor) file lists 170 countries. Each entry lists the continent, country, and fact. Use the arrow keys to view the entire file.

The City.DB (database) file lists the cities with additional information: country, continent, latitude, longitude, population, elevation (feet), elevation (meters), and language. To view all columns, press open-Apple L, and then use the left and right arrow keys. Press ESC twice to go back to the beginning of the file.

The Country.DB (database) file lists the countries with additional information: continent, population, area (square miles), area (square kilometers), land borders, and water borders. To view these columns, use the instructions given above.

Suggestions for Using the Data Files

The AppleWorks Data Disk is an extensive, up-to-date source of information. It was compiled from several reference books; hence, it can be used as another research reference. As students become familiar with it, they will use it as a potent supplement to atlases, encyclopedias, and other references.

Students will find the data disk an invaluable aid in completing the copy masters on pages 37-43. You may wish to copy the disk for extra protection against damage and for multiple use by students. You may also want to keep a copy of the unaltered database.

If students are already familiar with AppleWorks, they can easily adjust or alter the files to update or lengthen them. In this way, the data disk becomes a true source of current information. You may wish to challenge students to add new columns in the databases to present additional information. With the use of AppleWorks, data from this disk can also be printed.

GeoWhiz Database Reference Guide

Academic American Encyclopedia. Chicago: World Book, Inc., 1988.

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Grant, Neil, and Nick Middleton. The Atlas of the World Today. New York: Harper & Row, Publishers, Inc., 1987.

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Showers, Victor. World Facts and Figures. New York: Wiley-Interscience, 1973.

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World and Its People, The. Morristown, N.J.: Silver Burdett & Ginn, 1985.

World Book Encyclopedia, The. Chicago: World Book, Inc., 1988.

World View, A. Morristown, N.J.: Silver Burdett & Ginn, 1988.

COPY MASTERS

The following pages contain copy masters to be used with the ***GeoWhiz*** map skills program. These descriptions of the copy masters include suggestions for their use.

- **Continent Maps and World Map**

  These reproducible maps show the six continents found in ***GeoWhiz***. You may wants to give each student a copy of each map and post them near the computer for students to use while they are locating the missing aircraft.

- **Clue Notes**

  This work sheet provides a format for students to record the clues sent by the pilot of the missing aircraft. You may want to give each student several copies of Clue Notes for recording the clues of each adventure.

- **Student Record Sheet**

  This copy master provides each student with an individual record of his or her own performance on ***GeoWhiz***. Students can use this record sheet to try to improve their own skills at locating the missing aircraft.

- **Vocabulary Crossword Puzzle**

  The crossword puzzle contains clues that require an understanding of the vocabulary used in the program. It is recommended that the student try this puzzle after using the program.

- **Name That Country!**

  This copy master gives descriptions of 21 countries. Students are asked to name the country that is being described. The AppleWorks Data Disk or the *Database* section of the program can be used as a reference tool.

- **European Cities**

  This copy master asks students to shade in those regions of the puzzle that contain cities located in Europe. The students then use the AppleWorks Data Disk or the *Database* section of the program to check their answers.

- **City Search**

  Students find the names of cities in an alphabet puzzle. The AppleWorks Data Disk or the *Database* section of the program can be used as a reference tool.

- **Guess and Check**

  This copy master asks students to identify the name of the country or city being described. Once a guess has been taken, the students can search the *Database* section of ***GeoWhiz*** to find the exact location.

- **World Connections**

  This copy master asks students to connect a given city with its country and continent. This practice is an invaluable aid for map and globe skills.

- **Population Density**

  This copy master defines population density and describes the algorithm for calculating it. Students are then asked to find several population densities. They may use the AppleWorks Data Disk or the *Database* section of the program as a reference tool.

- **Loading Disks/Keyboard Guide**

  A copy of this information may be posted near the computer to provide students with instructions for loading disks and as an easy reference to special keys.

- **Care of Disks**

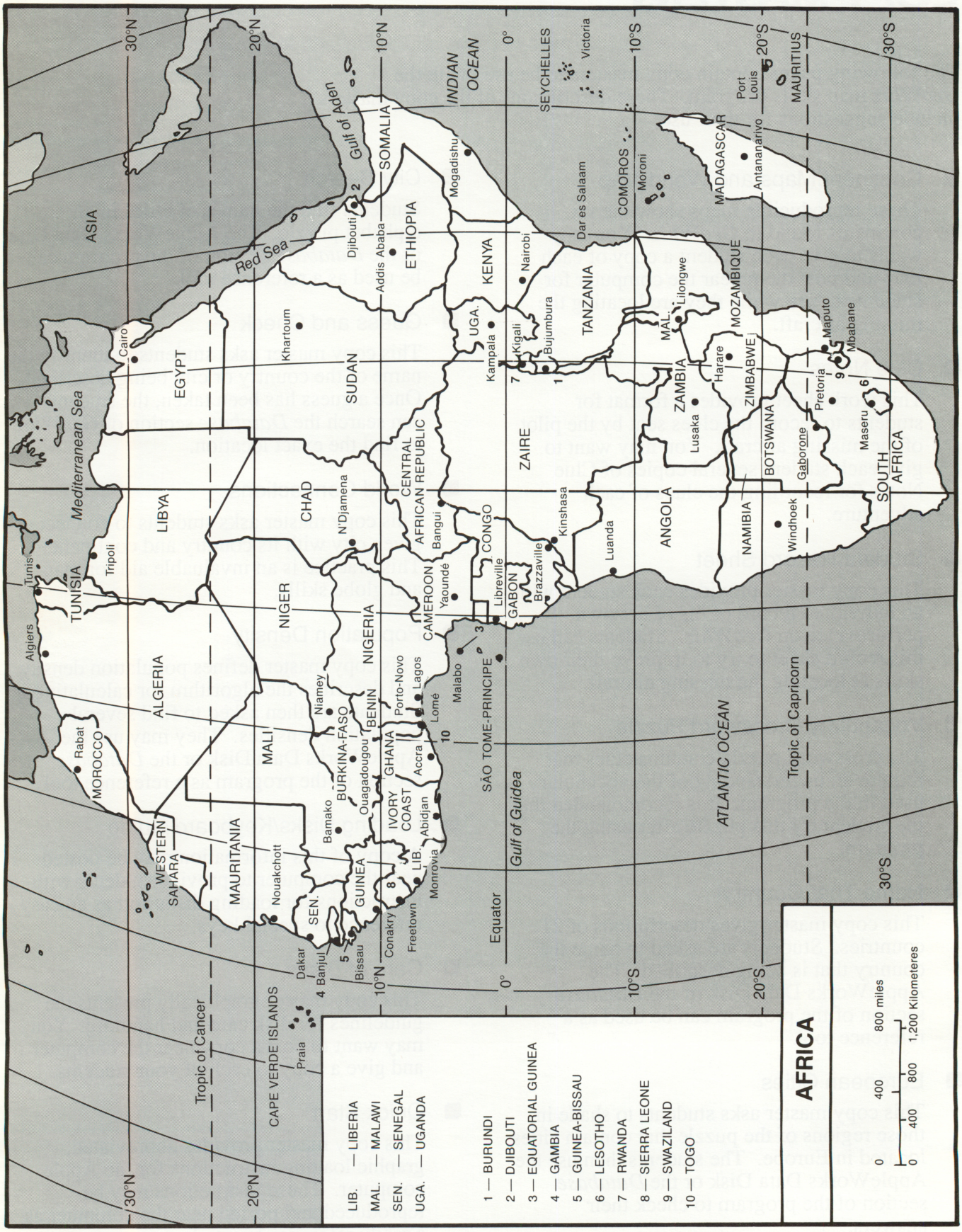
  This copy master graphically presents the guidelines for disk care and handling. You may want to post a copy near the computer and give a copy to each of your students.

- **Quick Start**

  This copy master provides abbreviated, graphic loading instructions for the Apple computer. These instructions may be reproduced and posted near the computer as a ready reference for students.

Name _____

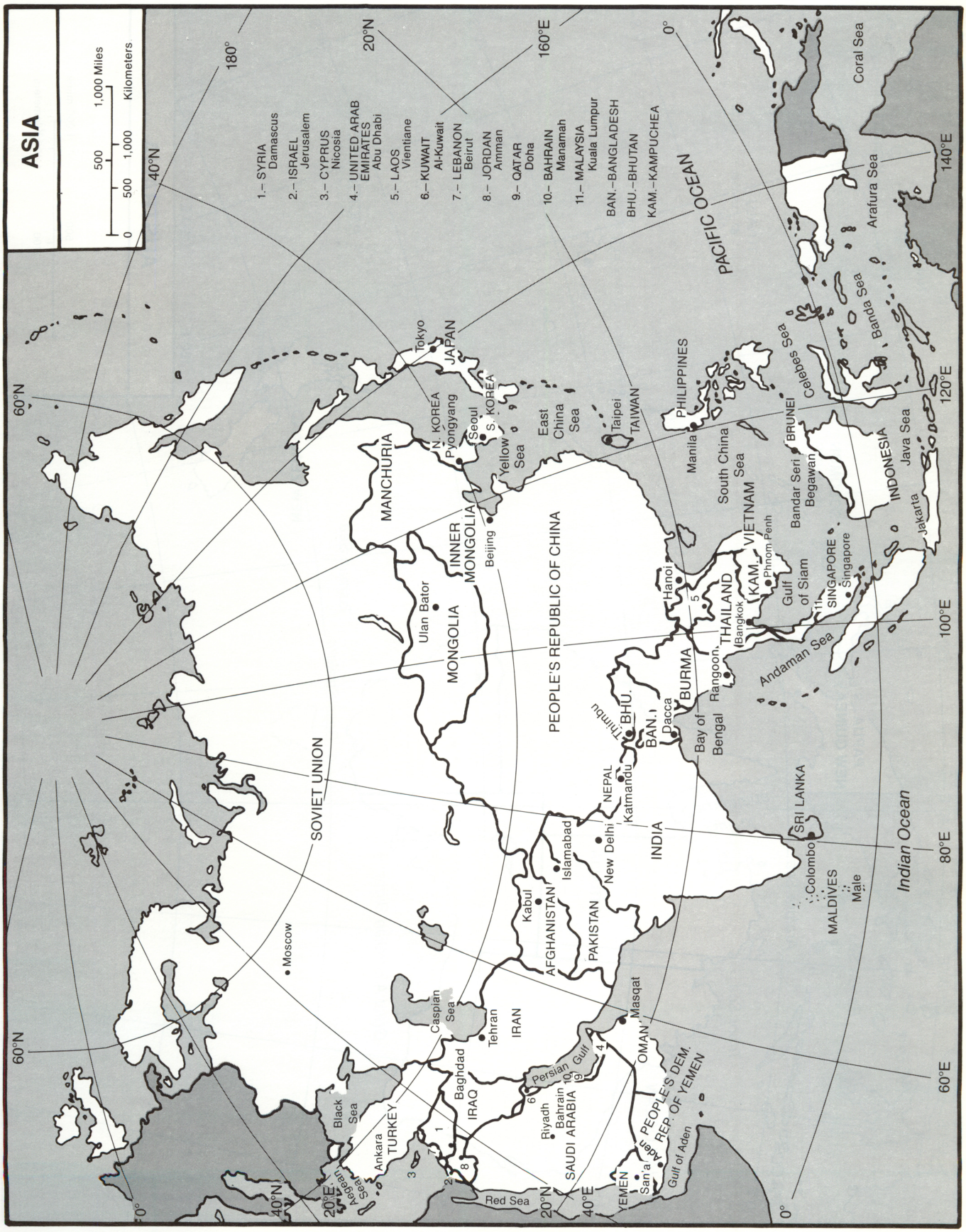
Continent Maps



© Silver, Burdett & Ginn Inc.

Name _____

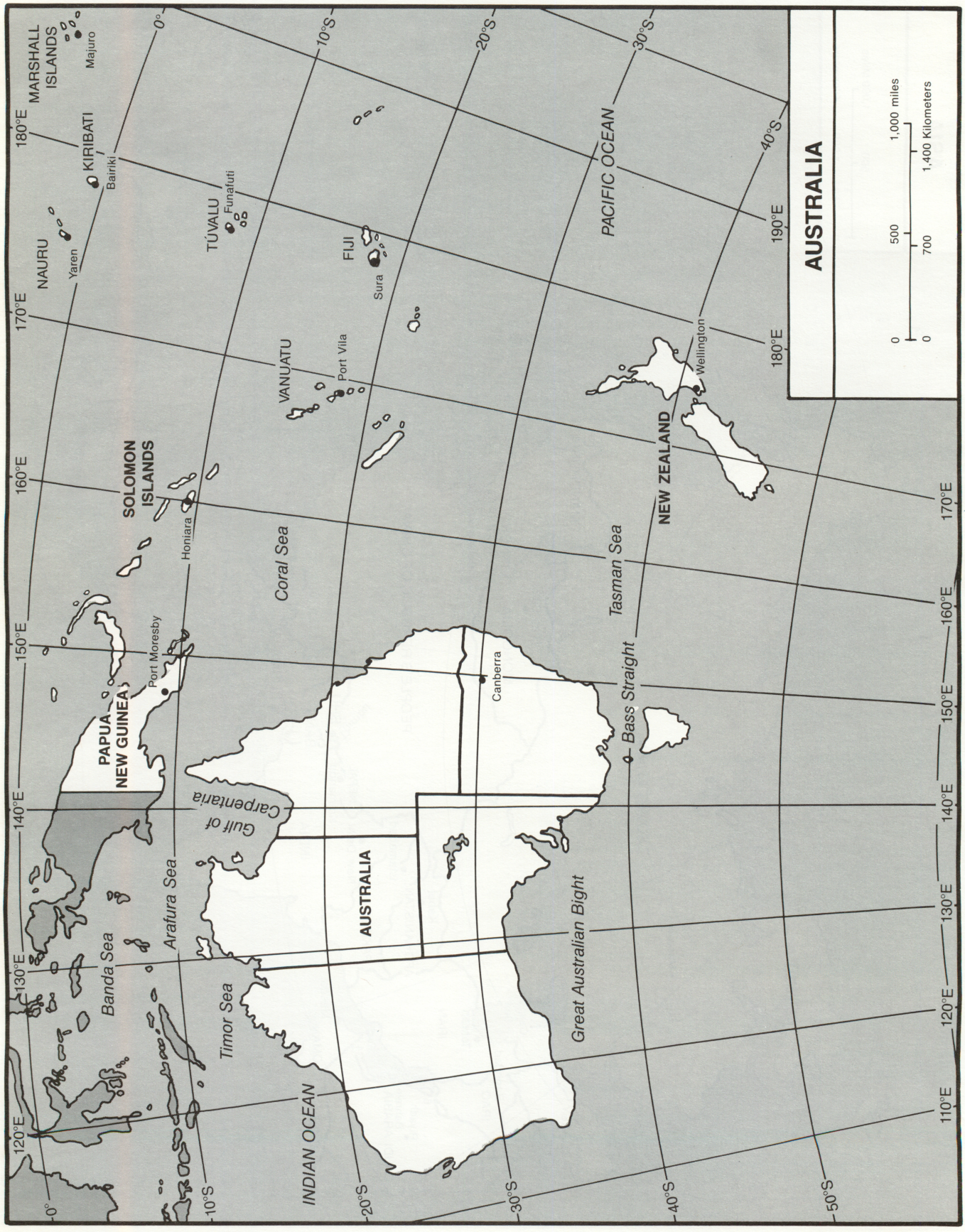
Continent Maps



© Silver, Burdett & Ginn Inc.

Name _____

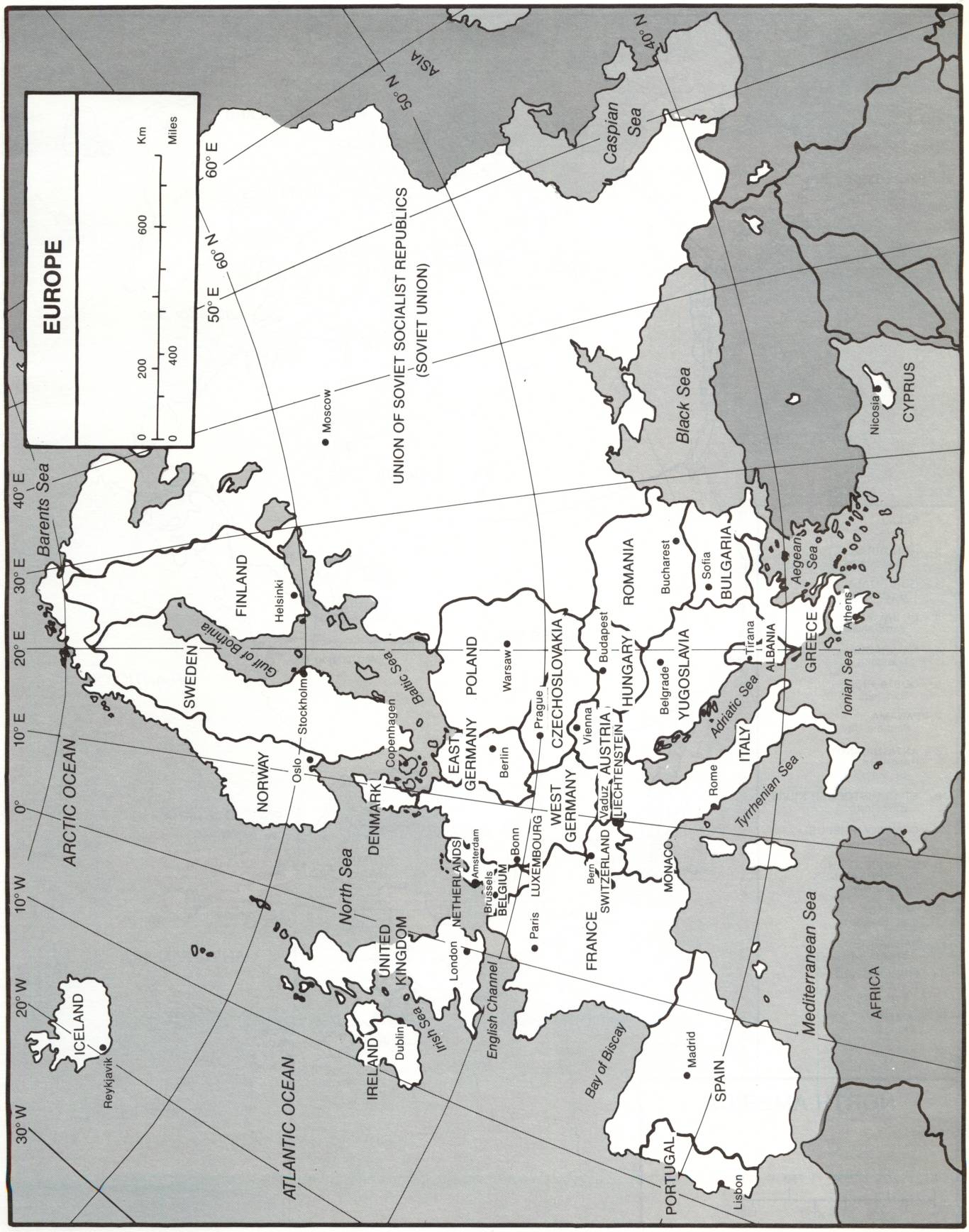
Continent Maps



© Silver, Burdett & Ginn Inc.

Name _____

Continent Maps



© Silver, Burdett & Ginn Inc.

Name _____

Continent Maps



© Silver, Burdett & Ginn Inc.

Name _____

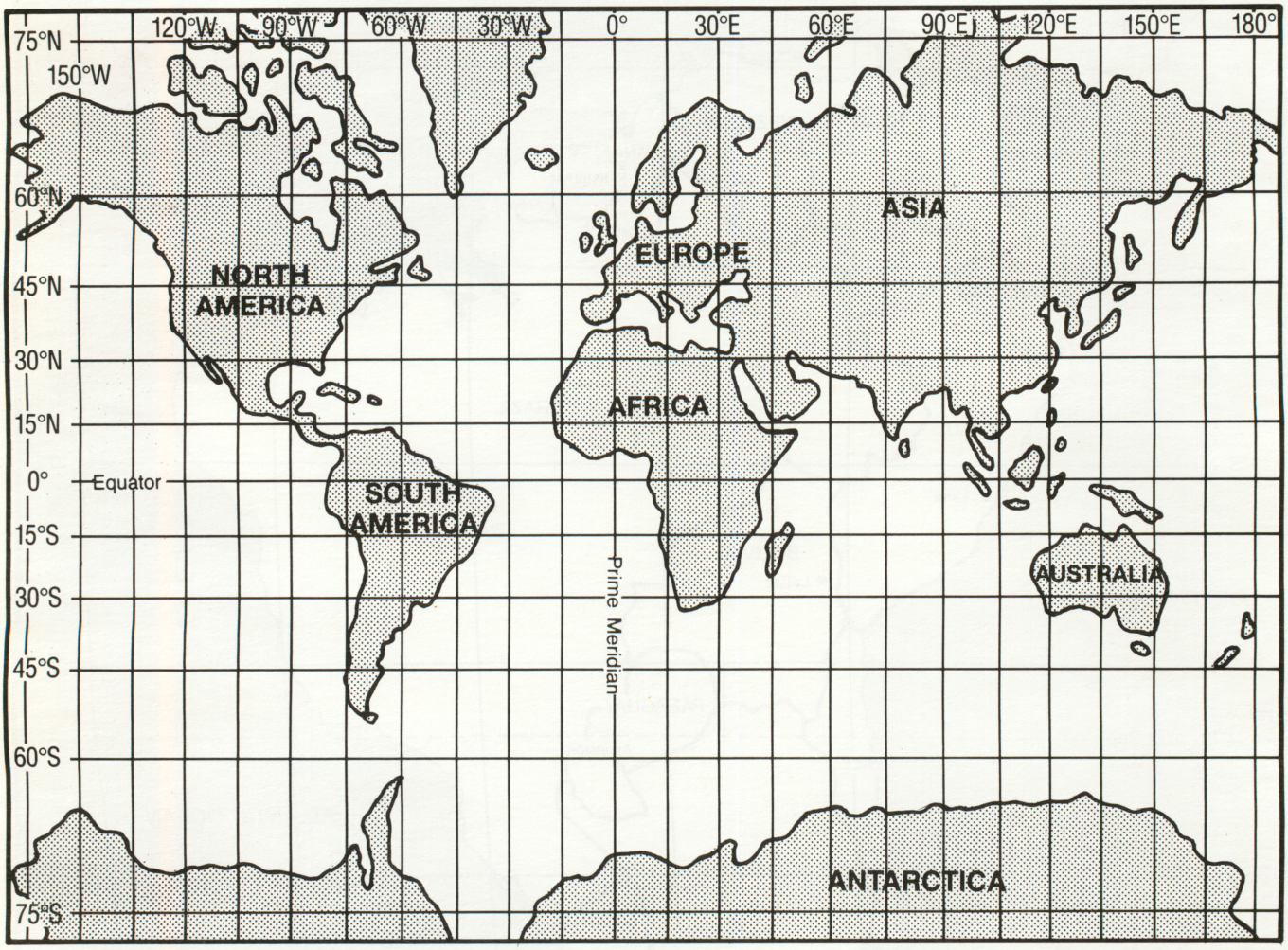
Continent Maps



© Silver, Burdett & Ginn Inc.

Name _____

World Map



© Silver, Burdett & Ginn Inc.

Name _____

Clue Notes

Clue	Reference Information

© Silver, Burdett & Ginn Inc.

Student Record Sheet

Name _____

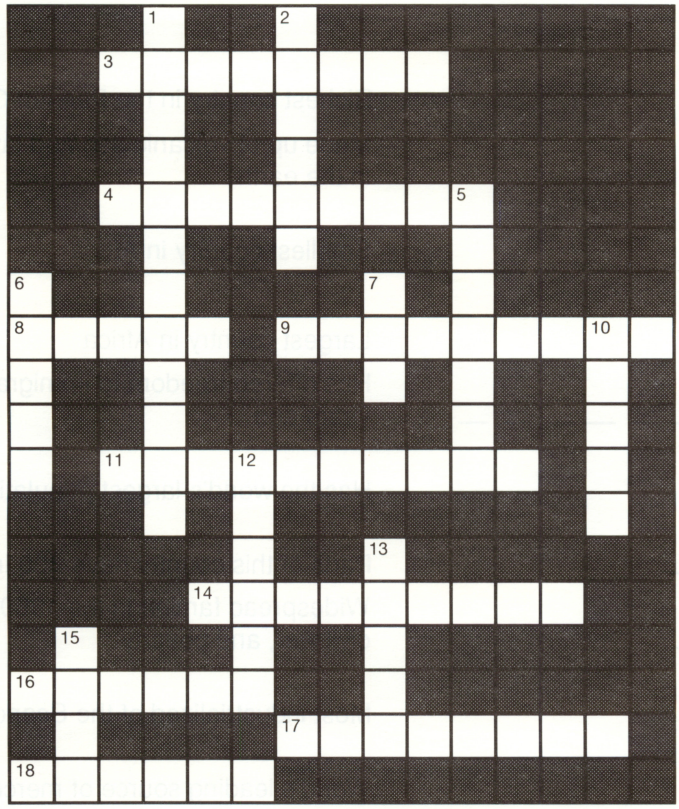
Continent	Country	Population	Area	Borders	Fact

Continent	Country / City	Location	Population	Elevation	Language	Fact

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Name _____

Vocabulary Crossword Puzzle



ACROSS

3 Distance, measured in degrees, north and south of the Equator

4 Distance, measured in degrees, east and west of the Prime Meridian

8 A waterway created by people rather than by nature

9 The distance above or below sea level of land

11 Half of the earth or globe

14 A very large body of land

16 A product sold by one country to another

17 Line of longitude running in a north-south direction on a map or globe

18 A body of land completely surrounded by water

DOWN

1 A person who makes map

2 A narrow waterway that connects two larger bodies of water

5 The imaginary circle around the middle of the earth, halfway between the North Pole and the South Pole

6 The relationship between distance on a map and distance on the earth

7 A large body of salt water, smaller than an ocean

10 A very large body of salt water

12 A product one country buys from another

13 A long, narrow body of water that flows through the land

15 An imaginary line that goes through the earth from the North Pole to the South Pole

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Name _____

Name That Country!

Write the name of the country described. If you have identified each country correctly, a message will appear in the boxes.

☐ _ _ _ _ _ _ — Richest country in the Persian Gulf area

☐ _ _ _ _ _ _ — Made up of volcanic ash and lava, still pouring out of craters in the earth

☐ _ _ _ _ _ — Smallest country in Africa

☐ _ _ _ _ — Largest country in Africa

☐ _ _ _ _ _ _ _ _ _ _ _ _ _ — Has offered freedom to immigrants since its birth over 200 years ago

☐ _ _ _ _ — Has the world's largest population

☐ _ _ _ _ _ _ _ — Parts of this country have 400 inches of rain each year

☐ _ _ _ _ _ _ _ — Widespread famine in the 1980's caused by drought, civil war, and poverty

☐ _ _ _ _ _ — Most industrialized of the Scandinavian countries

☐ _ _ _ _ — World's leading source of mercury

☐ _ _ _ _ — World's leading producer of tea and cattle

☐ _ _ _ _ — Country containing Mt. Everest

☐ _ _ _ _ _ _ _ _ — Has Tajumulco, the highest mountain in Central America

☐ _ _ _ _ — Suez Canal brings revenue for this country

☐ _ _ _ — Divided into two parts by the United Arab Emirates

☐ _ _ _ _ _ — Only English-speaking country in South America

☐ _ _ _ _ _ _ — European country with large chemical industry based on oil and gas resources

☐ _ _ _ _ _ _ — 90% is covered by the Sahara desert

☐ _ _ _ _ _ _ _ _ _ _ — President Marcos left this island in 1986

☐ _ _ _ _ _ _ — Collective farms abound here

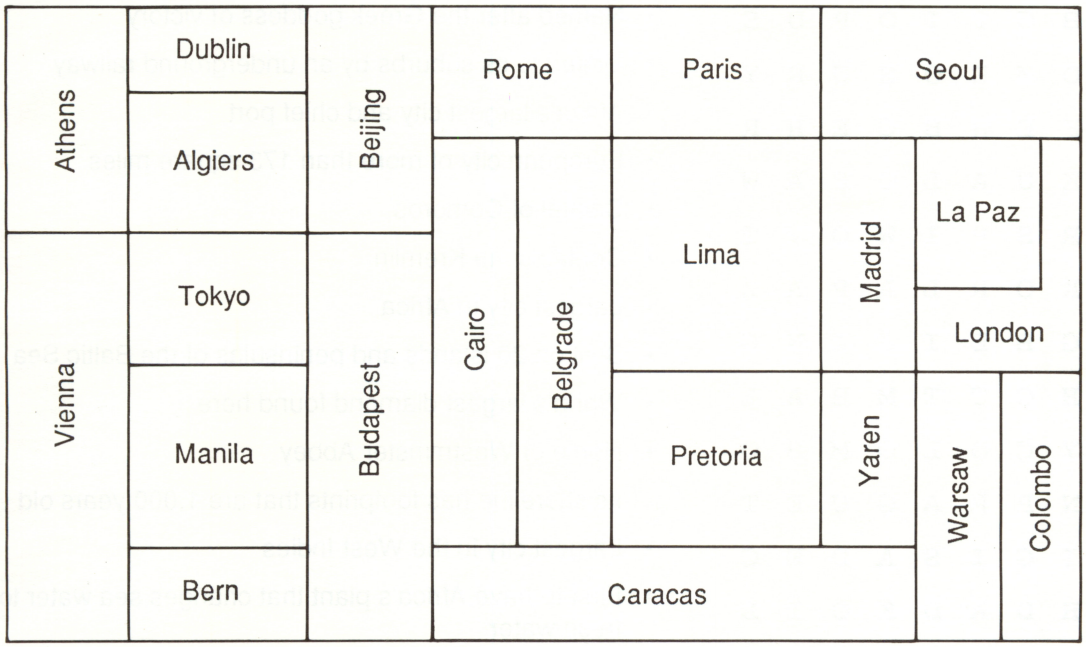
☐ _ _ _ _ _ _ _ _ _ _ — An assassin's bullet sparked the start of World War I

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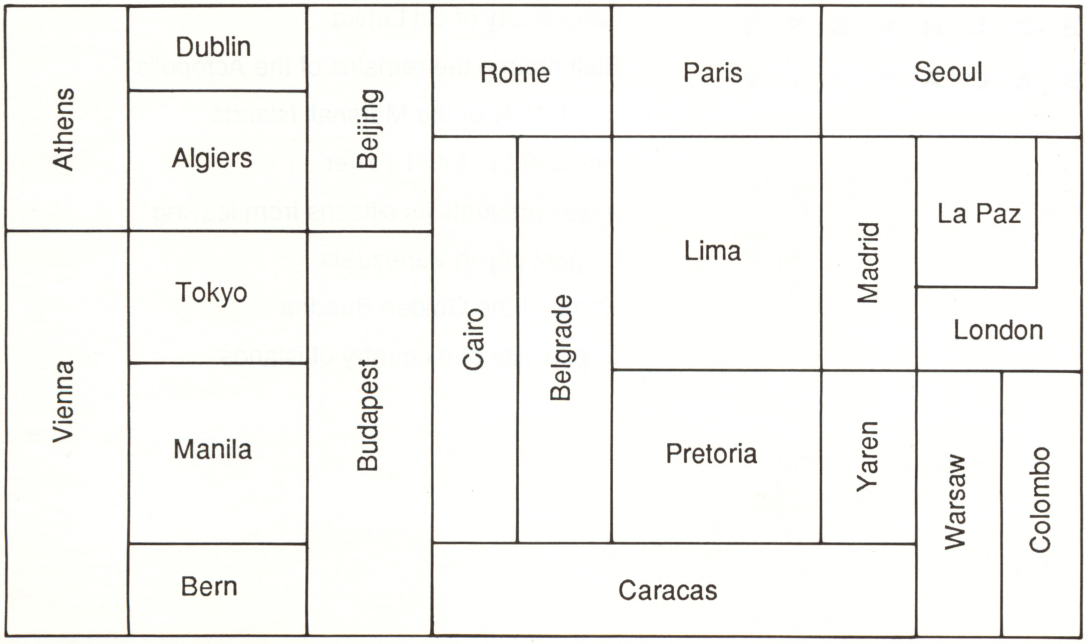
Name _____

European Cities

Shade each area containing the name of a city that you think lies in Europe.



Using the AppleWorks Data Disk as a reference, shade each area containing the name of a city in Europe



How many cities did you shade correctly? _____

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Name _____

City Search

Use the clues below to find the names of 26 cities. Circle them in the puzzle below.

T E B I M A J U R O M A S Y
E S R L O M B G T I O P D S
Z I A U R R O M E O S U R Y
R A S T O Y F E W B C E H R
N C I T N U K U A L O F A W
F A L G I E R S P I W O V T
M I I T R Y K O R L A P A Z
I R A M I N G B E I J I N G
N O U A K C H O T T M B A L
E S E W S T Y C O L O M B O
A L O N D O N P R A G U E T
S O C X M R I G I S A D E C
T M J B A G H D A D K O I L
B U Y A N T O P P A R I S Y
E H O N I T Y N I C O S I A
R E P G L E M M A N A G U A
L I T K A T H E N S M E N S
I S T O C K H O L M R E S T
N I N K C A R A C A S T I P

- City in tales of Thousand and One Nights
- Named after the Greek goddess of victory
- Linked to its suburbs by an underground railway
- Africa's largest city and chief port
- European city of more than 173 square miles
- Capital of Comoros
- Contains the Kremlin
- Largest city in Africa
- Built on 20 islands and peninsulas of the Baltic Sea
- World's largest diamond found here
- Home of Westminster Abbey
- Its shoreline has footprints that are 1,000 years old
- Largest city in the West Indies
- First to have Africa's plant that changes sea water to fresh water
- Imperial capital of the Ming dynasty
- Largest capital city in the world
- Called the Eternal City
- Designed in the shape of an airplane
- Largest city of Sri Lanka
- Built around the remains of the Acropolis
- Capital city of the Marshall Islands
- Home of the Eiffel Tower
- A wall prevents its citizens from leaving
- Largest city in Venezuela
- Home of the Golden Buddha
- Capital city of a country of islands

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Name _____

Guess and Check

Read each summary below. Write the country or city that you think is being described. Then search the *Database* of ***GeoWhiz*** to find the correct location.

- I'm thinking of a country in Asia. It is north of 30° north longitude. It borders the Pacific Ocean and has an area less than or equal to 200,000 square miles.

  Guess: _____

  Search: _____

- I'm thinking of a country in Asia that borders China. It is less than or equal to 100,000 square miles in area. It is located east of 50° west latitude. Rice is the most important product.

  Guess: _____

  Search: _____

- I'm thinking of a South American country that is south of 20° south longitude. Its population is greater than 25 million people. The Amazon River is a border.

  Guess: _____

  Search: _____

- I'm thinking of a South American country that is west of 60° west latitude. The population is less than 10 million. It borders the Atlantic Ocean.

  Guess: _____

  Search: _____

- I'm thinking of a North American city. Its population is greater than 700,000 and its elevation is less than 200 feet. This city has one of the best harbors in the Western Hemisphere.

  Guess: _____

  Search: _____

- I'm thinking of a city in North America with an elevation of less than 30 feet. It has more than 600,000 people.

  Guess: _____

  Search: _____

- I'm thinking of a city in Europe with a population of more than 2 million people. This city is built on seven hills.

  Guess: _____

  Search: _____

- I'm thinking of a city in Europe with an elevation of more than 1,500 feet. It has less than 500,000 people and is located west of 10° east latitude.

  Guess: _____

  Search: _____

- I'm thinking of a country in Africa with more than 20 million people. It is north of 20° north latitude and borders the Nile River. Its area is less than 400,000 square miles.

  Guess: _____

  Search: _____

- I'm thinking of an African country north of 10° north latitude and west of 0° longitude. Its population is under 500,000 people.

  Guess: _____

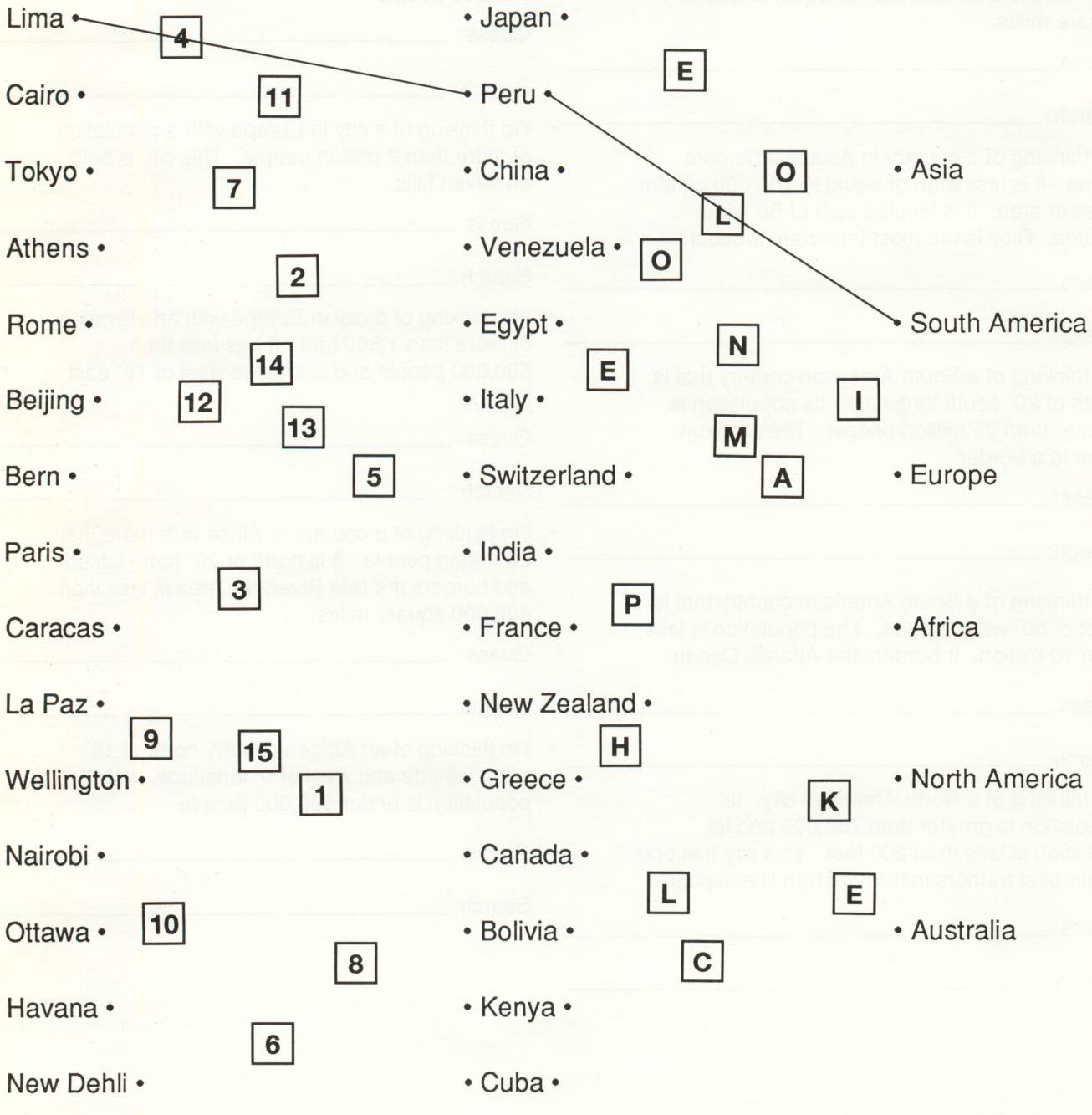
  Search: _____

© Silver, Burdett & Ginn Inc.

Name _____

World Connections

Using a ruler, draw a line to connect each city to its country. Then draw another line to connect each country to its continent. The lines will pass through a letter and a number. Write the letter in the box above the number. If the connections are correct, a message will appear. The first one is done for you.



			L												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

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Name _____

Population Density

When do you feel crowded? Do you feel crowded when your friends do? Scientists know that crowded conditions cause people to behave in different ways. Do you agree? Support your answer.

Crowdedness can be measured by a country's population density. Population density is the average number of people per given unit of area (square mile or square kilometer). To find the population density of a country, divide the population by the area.

Example: Ghana has 13,900,000 people in 92,100 square miles.

$$92{,}100\overline{)13{,}900{,}000} \quad \text{or} \quad 921\overline{)139{,}000.00}\,\overset{150.92}{}$$

To use a calculator, press the following:

[1] [3] [9] [0] [0] [0] [0] [0] [÷] [9] [2] [1] [0] [0] [=]

Rounded to the nearest tenth, the population density of Ghana is 150.9 people per square mile.

Use the Country database from the AppleWorks Data Disk to fill in the chart below. Then calculate the population density of each country and rank them from 1 to 6 (highest to lowest). With your teacher's permission, you may use a calculator.

Country	Population	Area (square miles)	Population Density	Rank
Mexico				
Nigeria				
Philippines				
Cuba				
Venezuela				
Japan				

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ANSWER KEY

Name _____

Vocabulary Crossword Puzzle



ACROSS

3 Distance, measured in degrees, north and south of the Equator
4 Distance, measured in degrees, east and west of the Prime Meridian
8 A waterway created by people rather than by nature
9 The distance above or below sea level of land
11 Half of the earth or globe
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16 A product sold by one country to another
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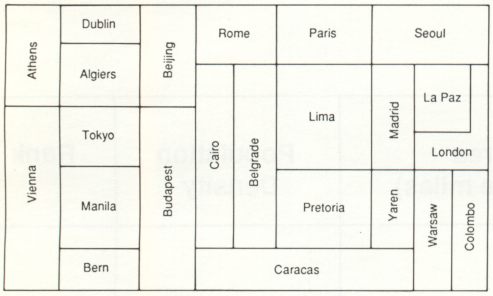
BAHRAIN	Richest country in the Persian Gulf area
ICELAND	Made up of volcanic ash and lava, still pouring out of craters in the earth
GAMBIA	Smallest country in Africa
SUDAN	Largest country in Africa
UNITED STATES	Has offered freedom to immigrants since its birth over 200 years ago
CHINA	Has the world's largest population
CAMEROON	Parts of this country have 400 inches of rain each year
ETHIOPIA	Widespread famine in the 1980's caused by drought, civil war, and poverty
SWEDEN	Most industrialized of the Scandinavian countries
SPAIN	World's leading source of mercury
INDIA	World's leading producer of tea and cattle
NEPAL	Country containing Mt. Everest
GUATEMALA	Has Tajumulco, the highest mountain in Central America
EGYPT	Suez Canal brings revenue for this country
OMAN	Divided into two parts by the United Arab Emirates
GUYANA	Only English-speaking country in South America
ROMANIA	European country with large chemical industry based on oil and gas resources
ALGERIA	90% is covered by the Sahara desert
PHILIPPINES	President Marcos left this island in 1986
HUNGARY	Collective farms abound here
YUGOSLAVIA	An assassin's bullet sparked the start of World War I

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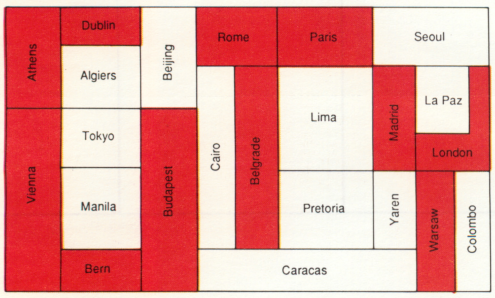
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M I I T R Y K O R L A P A Z
I R A M I N G B E I J I N G
N O U A K C H O T T M B A L
E S E W S T Y C O L O M B O
A L O N D O N P R A G U E T
S O C X M R I G I S A D E C
T M J B A G H D A D K O I L
B U Y A N T O P P A R I S Y
E H O N I T Y N I C O S I A
R E P G L E M M A N A G U A
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  Guess: _____

  Search: Japan

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  Guess: _____

  Search: North Korea

- I'm thinking of a South American country that is south of 20° south longitude. Its population is greater than 25 million people. The Amazon River is a border.

  Guess: _____

  Search: Brazil

- I'm thinking of a South American country that is west of 60° west latitude. The population is less than 10 million. It borders the Atlantic Ocean.

  Guess: _____

  Search: Guyana

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  Guess: _____

  Search: Havana, Cuba

- I'm thinking of a city in North America with an elevation of less than 30 feet. It has more than 600,000 people.

  Guess: _____

  Search: Washington, D.C., U.S.

- I'm thinking of a city in Europe with a population of more than 2 million people. This city is built on seven hills.

  Guess: _____

  Search: Rome, Italy

- I'm thinking of a city in Europe with an elevation of more than 1,500 feet. It has less than 500,000 people and is located west of 10° east latitude.

  Guess: _____

  Search: Bern, Switzerland

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  Search: Egypt

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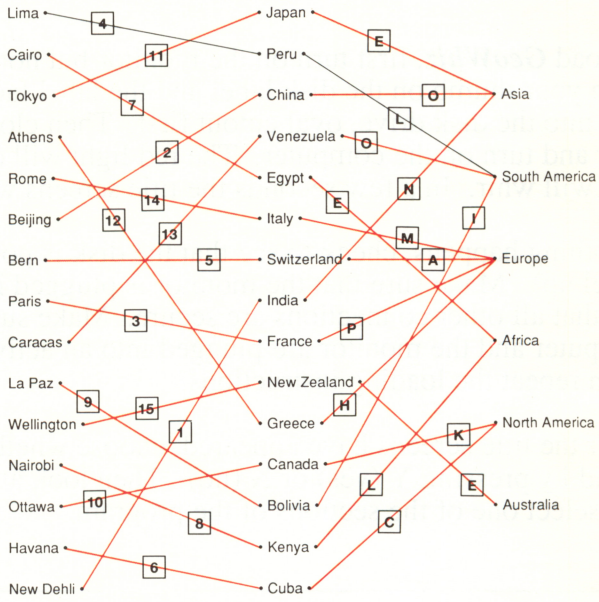
  Search: Cape Verde Islands

© Silver, Burdett & Ginn Inc.

Name _____

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N	O	P	L	A	C	E	L	I	K	E	H	O	M	E
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

© Silver, Burdett & Ginn Inc.

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Country	Population	Area (square miles)	Population Density	Rank
Mexico	81,900,000	761,602	107.5	5
Nigeria	108,600,000	356,668	304.5	3
Philippines	61,500,000	115,830	531	2
Cuba	10,300,000	44,216	232.9	4
Venezuela	18,300,000	352,143	52	6
Japan	122,200,000	143,750	850.1	1

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LOADING DISKS/KEYBOARD GUIDE

To load *GeoWhiz*, first turn on the monitor but not the computer. With your thumb on the disk label and the label facing up, insert the disk into the disk drive, oval cutout first. Then close the disk-drive door and turn on the computer. The red light will come on, and the disk will whir. In a few seconds the title screens will appear.

If nothing happens, check to see that the disk is positioned properly (label up). Make sure that the monitor is plugged into the computer and that all other connections are secure. Make sure that the computer and the monitor are plugged into an active power source. Then repeat the loading instructions.

After the title screens have appeared, choose whether you want sound by pressing Y (yes) or N (no). Then look at the Main Menu and select one of the sections of the program.

KEYBOARD GUIDE
GEOWHIZ

USE	TO
ARROW KEYS	Highlight a selection on a menu or scroll choices offered.
RETURN	Advance a screen or lock an entry into place
ESC	Stop what you are doing and return to a previous menu; also to exit a search
I	See index of an on-screen map
Y	Answer yes to questions
N	Answer no to questions
NUMBER KEYS	Enter population, area, or elevation of a location
DELETE	Erase an entry (used before pressing RETURN)

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CARE OF DISKS

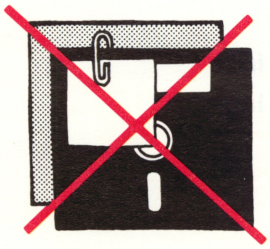
DON'T



Don't touch the disk surface; hold the disk only by the label.



Don't bend the disk, fold it, or get it wet.



Don't use paper clips on the disk.



Don't place the disk on top of the monitor or on top of the disk drive.

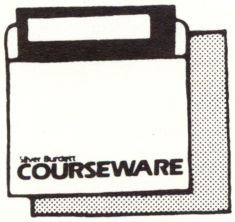


Don't write on the disk label with a ballpoint pen or a pencil; use a felt-tipped pen with light pressure.

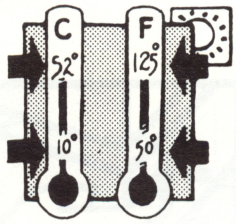


Don't put the disk where magnetic fields may damage it.

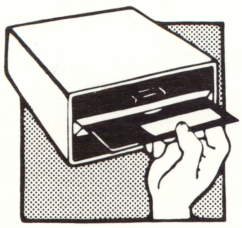
DO



Do keep the disk in the protective envelope when it's not in use.



Do store the disk at 10°C to 52°C (50°F to 125°F) and keep it out of direct sunlight.



Do insert the disk into the disk drive carefully, with the label up and facing you.

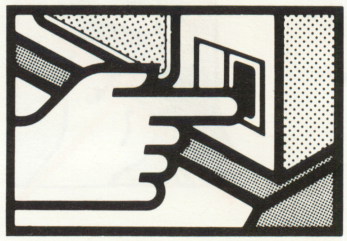


Do keep the disk away from chalkboards and other dusty areas.

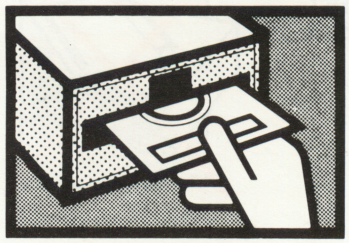
© Silver, Burdett & Ginn Inc.

QUICK START

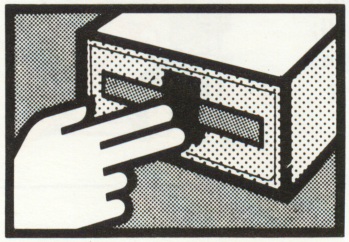
Apple® IIe, IIc, or IIGS



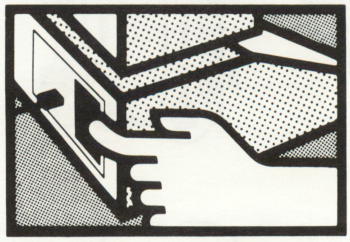
Turn on monitor.



Insert disk into disk drive, label side up.



Close disk drive door.



Turn on computer.

A B C D E F G H I J ESP 98 97 96 95 94 93 92 91 90 89

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